Listing of the Claims

1. (previously presented) A method for maintaining a virtual presence of a first remote telephone user in a PBX system having a frame relay network connection between two endpoint routers while permitting the first remote user to make local calls, the method comprising:

generating an off-hook indicator and transmitting the indicator to the PBX;
routing a telephone call placed at a remote telephone in accordance with a defined
protocol other than via the PBX while the off-hook indicator is active and the user is still
connected to the PBX;

detecting when the routed telephone call is terminated; and removing the off-hook indicator from the PBX upon detection of termination.

- 2. (previously presented) The method of claim 1, wherein transmitting and removing are performed by in-band signaling.
- 3. (previously presented) The method of claim 2, wherein said in-band signaling is in accordance with a Voice over Frame Relay or Voice over ATM, ATM Adaptation Layer 2 voice over packet protocol.
- 4. (original) The method of claim 1, wherein said telephone call-routing is to a public switched telephone network (PSTN) local to the remote telephone.
- 5. (original) The method of claim 1, wherein said telephone call-routing is to another remote telephone user at the same site within the PBX system as the first remote telephone user.
- 6. (previously presented) The method of claim 4, wherein said call-routing to another remote same-site telephone user is performed by a router having the public switched telephone network (PSTN) local to the remote telephone and wherein said PSTN is used in said call-routing.

- 7. (previously presented) The method of claim 1 in which the frame relay network includes an Voice over Frame Relay or Voice over ATM, ATM Adaptation Layer 2 voice over packet trunk connection.
- 8. (previously presented) The method of claim 1 which further comprises: forwarding an incoming call directed to the remote telephone to a voice mailbox generally from a time when said transmitting occurs to a time when said removing occurs.
- 9. (previously presented) The method of claim 1 which further comprises: indicating in response to an incoming call directed to the remote telephone that the telephone is busy generally from when said off-hook indicator is transmitted to when said off-hook indicator is removed.
- 10. (previously presented) Private branch exchange (PBX) conditioning apparatus for use in an endpoint router having a local public switched telephone network (PSTN) connection and a voice-equipped frame relay network connection, the apparatus comprising:

a mechanism for transmitting an off-hook indicator to the PBX that the PBX-connected telephone is temporarily incapable of receiving calls;

a mechanism for selectively routing a telephone call placed at a PBX-connected telephone to the local PSTN other than via the PBX while the off-hook indicator is active and the user is still connected to the PBX;

a mechanism for detecting a termination of such a PSTN-routed telephone call; and a mechanism responsive to said detecting mechanism for signaling the PBX to remove the off-hook indicator and that the PBX-connected telephone again is capable of receiving calls;

said transmitting and signaling mechanisms including software instructions resident on a computer-readable medium that when executed by a processor modify one or more interface status bits in the PBX.

- 11. (original) The apparatus of claim 10, wherein said routing mechanism is responsive to a predefined dialing sequence received from the PBX-connected telephone.
- 12. (original) The apparatus of claim 10 which further comprises a mechanism for alternatively routing the telephone call placed at the PBX-connected telephone to a same site PBX-connected telephone.
- 13. (previously presented) The apparatus of claim 10, wherein said transmitting and signaling mechanisms are operatively coupled to a PBX station interface associated with the PBX.
- 14. (previously presented) Private branch exchange (PBX) conditioning apparatus for use in an endpoint router having a local public switched telephone network (PSTN) connection and a voice-equipped frame relay network connection, the apparatus comprising:

means for transmitting an off-hook indicator to the PBX that the PBX-connected telephone is temporarily incapable of receiving calls;

means for selectively routing a telephone call placed at a PBX-connected telephone to the local PSTN other than via the PBX while the off-hook indicator is active and the user is still connected to the PBX;

means for detecting a termination of such a PSTN-routed telephone call; and means responsive to said detecting means for signaling the PBX to remove the off-hook indicator and that the PBX-connected telephone again is capable of receiving calls.

- 15. (original) The apparatus of claim 14, wherein said routing means is responsive to a predefined dialing sequence received from the PBX-connected telephone.
- 16. (original) The apparatus of claim 14 which further comprises means for alternatively routing the telephone call placed at the PBX-connected telephone to a same site PBX-connected telephone.

- 17. (previously presented) The apparatus of claim 14, wherein a first and a second signaling means are operatively coupled to a PBX station interface associated with the PBX.
- 18. (previously presented) A computer-readable medium containing a program for maintaining a virtual presence of a first remote telephone user in a PBX system having a frame relay network connection between two endpoint routers while permitting the first remote user to make local calls, the program comprising:

instructions for first signaling an off-hook indicator to the PBX to represent a remote telephone as being off hook;

instructions for routing a telephone call placed at the remote telephone in accordance with a defined protocol other than via the PBX while the off-hook indicator is active and the user is still connected to the PBX;

instructions for detecting when the routed telephone call is terminated; and instructions for second signaling the PBX to remove the off-hook indicator and to restore the on-hook status of the remote telephone.

- 19. (previously presented) The computer-readable medium in accordance with claim 18, wherein said instructions for first and second signaling are operative to perform in-band signaling in accordance with Voice over Frame Relay or Voice over ATM, ATM Adaptation Layer 2 voice over packet protocol.
- 20. (original) The computer-readable medium in accordance with claim 18, wherein said call-routing instructions are operative to route the telephone call to a public switched telephone network (PSTN) local to the remote telephone.
- 21. (original) The computer-readable medium in accordance with claim 18, wherein said call-routing instructions are operative to route the telephone call to another remote telephone user at the same site within the PBX system as the first remote telephone user.